

Press Release

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New Dynamic Runout Measurement Instrument Released for High-Speed Spindles

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The new Targa III Dynamic Runout instrument measures runout on high-speed spindles at speeds up to 300,000 RPM. Printed circuit board and other high-speed drilling operations require extremely low runout to prevent tool breakage leading to part failure. Static spindle runout, measured with a dial indicator while the spindle is turned by hand, may have very little correlation to spindle runout at operating speeds ("dynamic runout"). The new instrument features a noncontact capacitive sensor and a digital display with multiple measurement modes. The dynamic runout mode (DRO) presents a unique, continuously updating TIR measurement that does not require manual reset when the TIR decreases. This feature allows a fast and easy measurement of DRO across a range of spindle speeds. Results of this test indicate the optimal speed for production operation of the spindle.

The Targa III is third in a line of Targa Dynamic Runout instruments. The original Targa Dynamic Runout instrument was introduced in 1989 when Lion Precision first coined the term, "dynamic runout." Today, dynamic runout is an industry standard term. The Targa II featured a color LCD display for charting, while the Targa III has a DAQ connector configured for instant connection to National Instruments™ data acquisition products and easy operation with LabView™.

Lion Precision is a leading manufacturer of noncontact sensing solutions using capacitive and eddy-current technology as well as a market leader in the label sensor industry with their LRD line of label sensors (www.labelsensors.com).

Targa III specifications:

BNC Output Voltage	0-10VDC – TIR, DRO Modes ±5VDC – Other modes
BNC Output Voltage Scaling	Meter units: 25µm/V Inch units: 0.001"/V
BNC Output Resolution	625nm, 0.000,025"
Display Resolution	0.5µm, 0.000,02"
Measurement Range	250µm, 0.010" (1/8" pin)
Near Gap	125µm, 0.005" (1/8" pin)

More information on the Targa III including related research articles is available at: www.targa3.com.

For more information visit www.lionprecision.com or contact Lion Precision at:

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